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(71) Applicant (for all designated States except US): T. POTMA BEHEER B. V. [NL/NL]; Rietbergstraat 173, NL-7201 GG Zutphen (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): POTMA, Theodorus, Gerhardus [NL/NL]; Rietbergstraat 173, NL-7201 GG Zutphen (NL).

(74) Agent: FERGUSON, Alexander; c/o Octrooibureau Vriesendorp & Gaade B.V., P.O. Box 266, NL-2501 AW The Hague (NL).

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(54) Title: DRIVE FOR (SEMI-)CONTINUOUS DRIVES HAVING AN ENDLESS BELT

(57) Abstract: Drive for continuous drives having an endless belt. The invention relates to the transmission of mechanic power from a driving pulley to a driven pulley using an endless belt, wherein the driving force is transmitted by friction between the belt and the pulleys. The driving belt is wound a few times around the pulleys as a result of which the contact angle is much larger than the usual contact angle of approximately 180 to 360 degrees at a maximum. As a result thereof the necessary tension in the low-tension part of the belt is very low whereas a very high circumferential force can nevertheless be transmitted. In this drive according to the invention there are means present due to which the belt moves axially over the pulley with little friction, as a result of which the wound part of the belt in absolute sense remains in its place. Due to the low belt pre-tension and the high belt force to be transmitted, the drive is highly suitable for continuous variable transmissions for various applications.

WO 2005/088165 A2